VAISALA

Bid Specification

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2024-02-28

WINDCAP® Ultrasonic Wind Sensor



WXT532 Ultrasonic Wind Sensor

Features/Benefits:

- Uses ultrasound to measure horizontal wind speed and wind direction
- Triangular design ensures excellent data availability
- Maintenance-free with no moving parts; designed to operate without periodic field calibration
- Compact, durable, robust design for industrial applications
- Low power consumption
- Supports digital or analog output communication protocols
- Easy installation delivered fully assembled and configured from the factory
- Optional heating available to ensure accurate measurements in freezing, snowy conditions, as well as humid environments
- IP66 housing and mounting kit
- DNV GL Type Examination Certificate
- Optional accredited wind calibration (MEASNET) available

Summary:

Designed for demanding applications where stable and inexpensive wind measurements are required. Uses Vaisala WINDCAP® Technology. With no moving parts, the sensor has high sensitivity as the measurement time constant and starting threshold are virtually zero. No periodic field calibration or maintenance needed. Digital outputs of SDI-12, RS-232, RS-485, and RS-422. Analog outputs of 0 ... 20 mA or 4 ... 20 mA. Observations range for wind speeds 0 ... 60 m/s (0 ... 134 mph), and reporting range from 0 ... 75 m/s (168 mph). Wind speed measurement accuracy of \pm 3 % at 10 m/s (22 mph). Wind direction measurements to be 0 ... 360°. Wind direction measurement accuracy of \pm 3.0° at 10 m/s (22 mph). Response time for both wind speed and direction to be 0.25 s. Operating voltage shall be 6 ... 24 VDC (-10 ... +30 %). Average power consumption: Minimum - 0.1 mA at 12 VDC (SDI-12 standby), Typical - 3.5 mA at 12 VDC (typical measuring intervals), Maximum - 15 mA at 6 VDC (constant measurement of all parameters). Vaisala configuration tool and USB connection cable available for configuration. Optional mounting kit available.